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tures so minute that a hundred millions of them may be comprehended in the space of a cubic

to the scene of sight, aided by the most powerful instruments, are seen to possess organs fitted for collecting and digesting the impressions they prey. In reckoning the size of such atoms, we must not speak of billions, but of trillions of billions.

Dr. Lardner, in one of his recently-published scientific works, endeavors to convey to the reader some idea of the enormous speed of the locomotive going at the rate of seventy miles an hour. Seventy miles an hour is, in round numbers, one hundred and five feet per second, and in the course of a second, which a passenger is carried over thirty-five yards between two beats of a common clock. Two objects near him, a yard asunder, pass by his eye in the thirty-fifth part of a second; and if thirty-five stakes were erected by the side of the road,

any strong color, such as red, they would appear a continuous flash of red. At such a speed, therefore, the objects on the side of the road are not distinguishable. When two trains have passed each other, the flash of light from the locomotive will be double this, or seventy yards per second; and if one of the trains were seventy yards long, it would flash by in a single second. To accomplish this, supposing the driving-wheels seven feet in diameter, the piston must make 1,000 revolutions per second, or 60,000 in a second. But there are two cylinders, and the mechanism is so regulated that the discharges of steam are alternate. There are, therefore, twenty discharges of steam per second, at equal intervals; and thus these twenty puffs follow the piston twenty equal parts, each puff having the appearance of a flash, and thus it is that which succeeds and follows it.

its of sensation; and, sensitive as that organ is, it is not capable of distinguishing sounds which succeed each other at intervals of the kind here spoken of. According to experiments that have been made, the flight of a cannon ball was 6,700 feet in one quarter of a minute, equal to five miles per minute, or three hundred miles per hour. It follows, therefore, that a railway train, going at the rate of seventy-five miles per hour, has the velocity of one-fourth that of a cannon-ball.

pastorate of this church has been vacant but a little more than two years since 1853—a period of 223 years. The house is nearly square on the ground, with what is called a hip-roof; the roof is of shingles, rising to a point in the centre, and the apex is in the middle of the front. This arrangement permits the bell rope to fall into the broad aisle, except that it is drawn up into the attic whenever the house is to be occupied. The old house attracts much attention from visitors and strangers.

The church is a small, plain building, the churches in town to suspend services at their respective houses on the afternoon of Fast day, and assemble in the old "ship," so called, to listen to a temperance address from some one of the pastors, each taking his turn. On one of the last days of the year, the church, by a unanimous vote, was supplied from the

the pulpit lamps, he threw out his hand a little too far, and with one of the glass shades with numerous rapid sources, till it nearly reached the old sounding-board; then changing its course, it came down, barely escaping the head of the President of the meeting, who sat behind in front of the pulpit, and was shivered to atoms at his feet.

The incident caused a slight merriment for the moment, but will not soon be forgotten by those present. It is mentioned simply as a matter of the events connected with the old house. The present pastor of the society was ordained July 2d, 1866, and though rising of eighty years of age, yet walks the streets with more elastic step than many men of fifty.—*Congregationalist*.

DIFFERENCES IN THE CHURCH.—I remember

Wang Aderendson Manning was preaching an equality of reward and punishment in the future life, the row of windows opposite, and I saw that there were seven, all different in pattern and construction, yet all harmonizing with each other and with the building of which they were a part. They may have been of different dimensions in the Chinese style. From the varied windows opposite I looked down the faces of the congregation, all up-turned to the pulpit, with expression how different! Faith, hope, fear, in a open mouth and expanded eyes of some; a sort of silent protest in the lips and eyes of others; indifference, a speculative inquiry and interest, or merely admiring acquiescence, in others;—as the high or low, the wide or contracted head prevailed; and all this diversity in organization, in habits of

hungry beast looking up to be fed!" When I sigh over apparent disagreement, let me think of those windows in *Merton College Chapel*, and the same light from heaven streaming through them all—and that of that assemblage of human faces, unified with the same aspiration, once and all!—*Mrs. Janeson.*

RICHES.—On a sultry, hot summer day, my honest old man was plowing his own field, when suddenly, under the shade of an oak, he beheld a ghastly figure slowly approaching him. The man started back.

"Thou art a Solomon," said the phantom, in a confident voice. "What art thou doing here?"

"If thou art Solomon," was the reply, "how canst thou ask me? When I was a youth, thou

"Then has studied thy lesson but half," replied the spirit; "go once more to the ant, and learn from it also how to find rest and quiet in the winter of thy days, and how to enjoy the abundance which thou hast hoarded up.—*From the Editor.*"


SCHOOLS.—Now, although, as I have said before, there were no souls and no need of schools and languages for God's sake and the Scriptures—yet were this alone sufficient to arouse the question, "Why should we have schools for boys and girls—that the world may be used of skilled men and women, in order to maintain its secular condition. The men

MARRIAGE OF KINDRED.—A bill has passed the House of Representatives of Georgia, by a vote of fifty-six to fifty-two, prohibiting the intermarriage of persons of the same blood, and imposing a severe penalty, and cutting off the inheritance of issue. The preamble to the bill asserts that many deformations of mind and body are of congenial origin, from the practice of near kindred intermarrying with each other.

CONVERSATION.—Liberty is a fine thing; it is a great help to conversation; it has key-

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quality, who has not had one grain of wit, can
ertain a whole company the most agreeably in
the world, only with her malice. — *Yantrugh*.



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that the whole practical value of the *Recorder* is in the fact, that we shall need the kindly cooperation of every clergyman in the land, in order to secure the success of all the institutions of *Record* we have on foot for the relief of the poor.

"Recorder" will be dated Jan. 1, and contain, among other things, a list of the names of the clergymen of every diocese, and of every parsonage in the country, to which, for the first time, we intend to issue the *Recorder*. We shall also insert the names of the clergymen who will send us communications, and of the donors of any two numbers for one year, or of any one who will enclose five pence, for one number.

"We shall also contain articles, affidavits and newspapers—extraordinary, critical and eulogical—on every subject, and every insertion, and so not as to be without the matter of interest on our cover through one of our correspondents, and the *Recorder* will be inserted in the papers of the proprietors, at New York, and at Washington, D. C."

"We are now freely commencing the publication of the new paper at New York, and we have received letters from the consumers, most of which are in praise of the *Recorder*, and we are sure that the *Recorder* will be well received in the *Pittsburgh* for the same reason, and that the proprietors of this city will be well pleased as we need not say."

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